

## CLAIMS

Please amend the claims as follows.

1. (Currently Amended) A scanning method, comprising:  
moving a scan head along a first scanning direction to obtain a preview image using a first scanning resolution;  
displaying said ~~the~~ preview image;  
moving said scan head along a second scanning direction generally opposite to said ~~the~~ first scanning direction to obtain a high resolution image using a second scanning resolution that is higher than said ~~the~~ first scanning resolution;  
receiving input corresponding to a selected portion of said ~~the~~ preview image and a requested scanning resolution for a desired output image; and  
operating on said high resolution image to generate said output image at said ~~the~~ requested scanning resolution and corresponding to said selected portion of said ~~the~~ preview image.
2. (Currently Amended) The method according to claim 1, wherein said scan head moves in said second direction prior to an ~~the~~ identification of said requested scanning resolution.
3. (Previously Presented) The method according to claim 1, wherein said output image is generated without further movement of said scan head.
4. (Previously Presented) The method according to claim 1, wherein said second scanning resolution is a highest available scanning resolution of said scan head.
5. (Previously Presented) The method according to claim 1, wherein said high resolution image is operated on by adjusting a graph image coordinate.

6. (Previously Presented) The method according to claim 1, wherein said high resolution image is operated on by adjusting a scanning resolution scale.

7. (Canceled)

8. (Previously Presented) The method according to claim 1, wherein said requested scanning resolution is less than or equal to said second resolution.

9. (Previously Presented) A scanning method, comprising:  
moving a scan head along a first scanning direction to proceed with a first scanning procedure using a first scanning resolution, wherein a first image is obtained from said first scanning procedure;  
displaying said first image as a preview image;  
moving said scan head along a second scanning direction to proceed with a second scanning procedure using a second scanning resolution, wherein a second image is obtained from said second scanning procedure;  
receiving input corresponding to a user-selected portion of said preview image and a user-selected third scanning resolution; and  
operating on said second image to generate a third image at said third scanning resolution and corresponding to said user-selected portion of said preview image, wherein said third image is generated without further movement of said scan head.

10. (Currently Amended) The method according to claim 9, wherein said scan head is moved along said ~~the~~ second scanning direction prior to an ~~the~~ identification of said user-selected portion.

11. (Previously Presented) The method according to claim 9, wherein said first scanning resolution is lower than said third scanning resolution.

12. (Previously Presented) The method according to claim 9, wherein said third scanning resolution is lower than said second scanning resolution.

13. (Previously Presented) The method according to claim 9, wherein said second scanning resolution is a highest available scanning resolution of said scan head.

14. (Previously Presented) The method according to claim 9, wherein said second image is operated on by adjusting a graph image coordinate.

15. (Previously Presented) The method according to claim 9, wherein said second image is operated on by adjusting a scanning resolution scale.

16. (Previously Presented) The method according to claim 9, wherein a fourth scanning resolution is identified after said third image is generated.

17. (Previously Presented) The method according to claim 16, wherein said second image is operated on to generate a fourth image according to said fourth scanning resolution, wherein said fourth image is generated without further moving said scan head.

18. (Currently Amended) The method according to claim 9 wherein said second scanning procedure is performed prior to an ~~the~~ identification of said user-selected portion.

19. (Previously Presented) The method according to claim 9, wherein said second image is operated on to generate said fourth image by adjusting a scanning resolution scale and a graph image coordinate.

20- 23. (Cancelled)

24. (Currently Amended) The method according to claim 1, wherein said ~~the~~ second resolution is preset, and wherein said ~~the~~ selected portion of said ~~the~~ preview image and said ~~the~~ requested scanning resolution are identified in a user interface.

25. (Currently Amended) The method according to claim 9, further comprising

identifying a different portion of said ~~the~~ preview image; and  
operating on said high resolution image to generate a second output image, wherein said second output image is generated without further movement of said scan head.

26. (Cancelled)

27. (Previously Presented) A system, comprising:

means for moving a scan head along a first scanning direction to proceed with a first scanning procedure using a first scanning resolution, wherein a first image is obtained from said first scanning procedure;

means for moving said scan head along a second scanning direction to proceed with a second scanning procedure in a second scanning resolution which is higher than said first scanning resolution, wherein a second image is obtained from said second scanning procedure;

means for selecting a portion of said first image;

means for selecting an output resolution; and

means for operating on said second image to obtain a third image corresponding to the selected portion of said first image and the selected output resolution, wherein said first scanning direction is generally opposite to said second scanning direction.

28. (Previously Presented) The system according to claim 27, wherein said scan head moves in said second scanning direction prior to the selection of said portion of said first image.

29. (Previously Presented) The system according to claim 27, wherein said third image is generated without further movement of said scan head.

30. (Previously Presented) The system according to claim 27, wherein the selected output resolution is less than or equal to said second resolution.

31. (Currently Amended) A system, comprising:

a scan head configured to perform two or more scanning operations at different scanning resolutions, wherein a first scanning operation comprises scanning at a first resolution to obtain a

preview image, and wherein a second scanning operation comprises scanning at a second resolution higher than said ~~the~~ first resolution to obtain a high resolution image;

a user interface configured to display said preview image, wherein said user interface comprises a component for selecting a portion of said preview image and a component for selecting an output resolution during said ~~the~~ second scanning operation; and

a processor configured to operate on said high resolution image to generate an output image corresponding to said portion of said ~~the~~ preview image and said output resolution.

32. (Previously Presented) The system according to claim 31, wherein said scan head is configured to scan in a first direction during said first scanning operation, and wherein said scan head is further configured to scan in a second direction opposite said first direction during said second scanning operation.

33. (Currently Amended) The system according to claim 32, wherein said scan head is configured to perform said second scanning operation at the same time as said ~~the~~ portion of said preview image is selected.

34. (Currently Amended) The system according to claim 32, wherein said scan head is configured to begin said second scanning operation prior to a selection of said ~~the~~ output resolution.

35. (Previously Presented) The system according to claim 31, wherein said output image is generated without said scan head performing any further scanning operations.